

PHENIX WEEKLY PLANNING

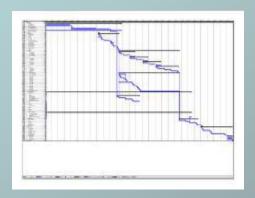
5/4/06 Don Lynch





This Week

- · Continuing HBD prep/electronics bench tests
- Support task backlog
- · Run support detector maintenance and adjustments
- · RXNP/HBD design tradeoff studies
- · Shutdown '06 schedule details









PHENIX Shutdown 2006 Overview

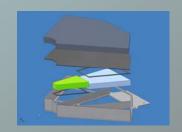
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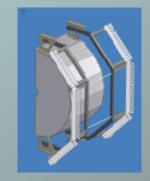
Task_Name	Duration	Start_Date	Finish_Date
PHENIX Shutdown '06	145 days	5/1/2006	11/17/2006
Pre Shutdown Tasks	60 days	5/1/2006	7/21/2006
End of Run 6	0 days	6/27/2006	6/27/2006
Shutdown Preparations	16 days	6/27/2006	7/18/2006
Detector Upgrades	47 days	7/19/2006	9/21/2006
Subsystem maint/repair tasks	47 days	7/19/2006	9/21/2006
Building and infrastructure tasks	113 days	5/1/2006	10/4/2006
E carriage roll in & setup	14 days	9/22/2006	10/11/2006
RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006
Run Prep	25 days	10/16/2006	11/17/2006
Shutdown Concluded	0 days	11/17/2006	11/17/2006

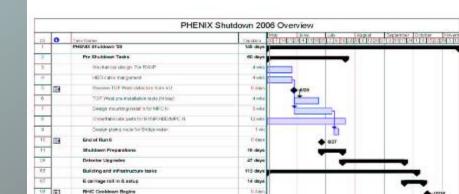




Pre Shutdown Tasks	60 days	5/1/2006	7/21/2006
Mechanical design For RXNP	4 wks	5/1/2006	5/26/2006
HBD cable mangement	4 wks	5/1/2006	5/26/2006
Receive TOF West detectors from VU	0 days	5/29/2006	5/29/2006
TOF West pre-installation tests (hi bay)	4 wks	5/29/2006	6/23/2006
Design mounting/install'n for MPC N	6 wks	5/29/2006	7/7/2006
Order/fabricate parts for RXNP/HBD/MPC N	12 wks	5/1/2006	7/21/2006
Design piping route for Bridge water	1 wk	7/10/2006	7/14/2006
End of Run 6	0 days	6/27/2006	6/27/2006







Rum Prepi Shubdown Concluded





Purge	กลร	from	all	dete	ctors

End of Run party

DAQ tests

Open up & prep

Open rolling woor

Remove rolling wall and plug doors

Take down EC access ladder & fold platforms

Prepare EC for move to AH

Remove beampipe collar

Move MMS full south and restrain

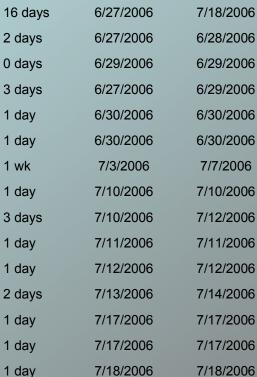
Retract and remove EC to AH

Install 12 ton cart on tracks

Move beampipe collar to AH

Install decking

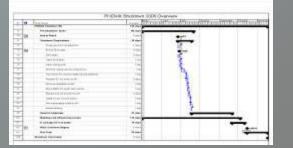
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	2 days	6/
	0 days	6/
	3 days	6/
	1 day	6/
	1 day	6/
	1 wk	7
	1 day	7/
	3 days	7/
	1 day	7/
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Hill Center Support 2005

PHENIX Shutdown 2006

TOF W

Prepare installation Fixtures

Mockup test installation

TOF Mechanical installation

TOF Electrical Installation

RXNP

Prepare for installation

Mechanical installation

Electrical installation

HBD

Prepare for installation

Mechanical installation

Electrical installation

MPC N

Move CM south

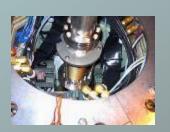
Prepare for installation

Mechanical installation

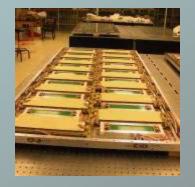
Electrical installation

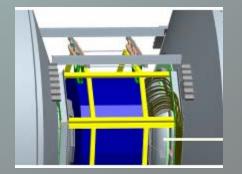
Move CM North

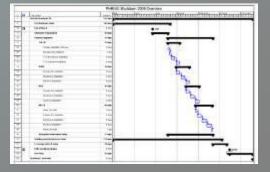




13 days	7/19/2006	8/4/2006
2 days	7/19/2006	7/20/2006
1 day	7/21/2006	7/21/2006
5 days	7/24/2006	7/28/2006
5 days	7/31/2006	8/4/2006
15 days	7/31/2006	8/18/2006
5 days	7/31/2006	8/4/2006
5 days	8/7/2006	8/11/2006
5 days	8/14/2006	8/18/2006
15 days	8/14/2006	9/1/2006
5 days	8/14/2006	8/18/2006
5 days	8/21/2006	8/25/2006
5 days	8/28/2006	9/1/2006
18 days	8/28/2006	9/20/2006
2 days	8/28/2006	8/29/2006
5 days	8/30/2006	9/5/2006
5 days	9/6/2006	9/12/2006
5 days	9/13/2006	9/19/2006
1 dav	9/20/2006	9/20/2006



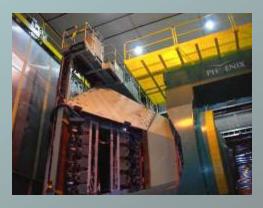




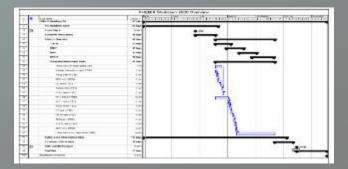




	47		
Subsystem maint/repair tasks	days	7/19/2006	9/21/2006
Prepare EC for subsystems work	1 wk	7/19/2006	7/25/2006
Magnet subsystems tasks (TBD)	1 day	7/19/2006	7/19/2006
Aerogel tasks (TBD)	1 day	7/20/2006	7/20/2006
BBC tasks (TBD)	1 day	7/21/2006	7/21/2006
DC tasks (TBD)	1 day	7/24/2006	7/24/2006
EmCal tasks (TBD)	1 day	7/26/2006	7/26/2006
FCAL tasks (TBD)	1 day	7/27/2006	7/27/2006
MPC S tasks (TBD)	2 wks	7/19/2006	8/1/2006
MuTr tasks (TBD)	1 day	8/2/2006	8/2/2006
MuID tasks (TBD)	1 day	8/3/2006	8/3/2006
PC tasks (TBD)	1 day	8/4/2006	8/4/2006
RICH tasks (TBD)	1 day	8/7/2006	8/7/2006
TEC tasks (TBD)	1 day	8/8/2006	8/8/2006
TOF E tasks (TBD)	1 day	8/9/2006	8/9/2006
ZDC tasks (TBD)	1 day	8/10/2006	8/10/2006
Other Subsystem tasks tasks (TBD)	6 wks	8/11/2006	9/21/2006



















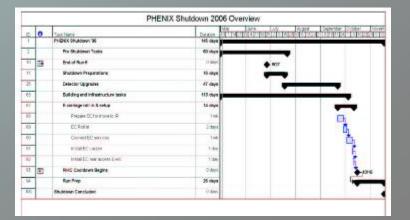
DHENN Technical Support				
DITTILITY OF THE PROPERTY OF	Building and infrastructure tasks	113 days	5/1/2006	10/4/2006
	AH infrastructure tasks	1 day	5/1/2006	5/1/2006
	TBD	1 day	5/1/2006	5/1/2006
DIJENITY	IR infrastructure tasks	18 days	7/17/2006	8/9/2006
PHENIX	Repair water lines to Bridge	1 day	7/17/2006	7/17/2006
hutdown 2006	Replace emergency fan louvres	1 wk	7/19/2006	7/25/2006
nu laown 2006	Rewire/add IR Ceiling lights on emergency power	1 wk	7/26/2006	8/1/2006
In the Control of the	Move WC away from Wall	1 day	8/2/2006	8/2/2006
	Replace WC sliding platform hoisting cables	1 wk	8/3/2006	8/9/2006
	Gas Pad	1 day	5/1/2006	5/1/2006
	TBD	1 day	5/1/2006	5/1/2006
	Gas Mixing House	1 day	5/1/2006	5/1/2006
	Exhaust fan maintenance	1 day	5/1/2006	5/1/2006
	TBD	1 day	5/1/2006	5/1/2006
	Rack Room	1 day	5/1/2006	5/1/2006
	TBD	1 day	5/1/2006	5/1/2006
	Counting House	1 day	5/1/2006	5/1/2006
	TBD	1 day	5/1/2006	5/1/2006
	all other PHENIX infrastructure	113 days	5/1/2006	10/4/2006
	Tech area & trailer mold remediation	1 day	5/1/2006	5/1/2006
	New raw materials storage container	1 day	5/1/2006	5/1/2006
	Repair roof leaks	1 day	5/1/2006	5/1/2006
	Install bridge access platforms from EC & eyebrow	2 days	10/3/2006	10/4/2006
PH ENIX	TBD	1 day	5/1/2006	5/1/2006



E carriage roll in & setup	14 days	9/22/2006	10/11/2006
Prepare EC for move to IR	1 wk	9/22/2006	9/28/2006
EC Roll in	2 days	9/29/2006	10/2/2006
Connect EC services	1 wk	10/3/2006	10/9/2006
Install EC Ladder	1 day	10/10/2006	10/10/2006
Install EC rear access & ext.	1 day	10/11/2006	10/11/2006
RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006



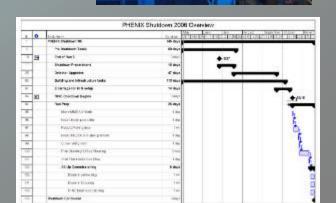






RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006
Run Prep	25 days	10/16/2006	11/17/2006
Move MMS full North	1 day	10/16/2006	10/16/2006
Install beam pipe collar	1 day	10/17/2006	10/17/2006
Rebuild Rolling door	1 wk	10/18/2006	10/24/2006
Install Plug Door & steel platform	1 day	10/25/2006	10/25/2006
Close rolling door	1 day	10/26/2006	10/26/2006
Pink Sheeting & Blue Sheeting	2 wks	10/27/2006	11/9/2006
Start Flammable Gas Flow	1 day	11/10/2006	11/10/2006
All Up Commissioning	5 days	11/13/2006	11/17/2006
Beam in yellow ring	1 wk	11/13/2006	11/17/2006
Beam in blue ring	1 wk	11/13/2006	11/17/2006
RHIC beam conditioning	1 wk	11/13/2006	11/17/2006
Shutdown Concluded	0 days	11/17/2006	11/17/2006

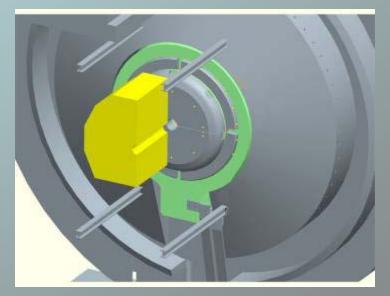






The Supportant

HBD Prototype Run Position Mounting



In run position (mounting supports not shown)

Prototype mounting supports

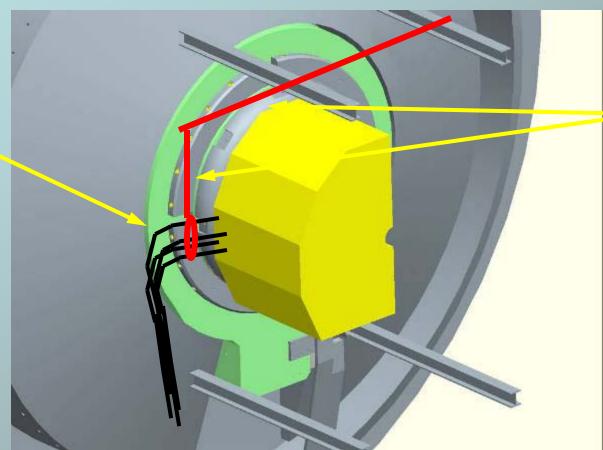
When to take out He bag?





HBD Prototype Run Position Mounting

He Bag And Cables conflict



Extend upper HBDP support to provide strain relkief for HBDP cables



The Support 3005

Next Week

- · Continue prep for HBD prototype move to run position
- HBD prototype check out tests
- New detector work (TOF West handling fixtures, HBD support structure, RXNP design, MPC North design)

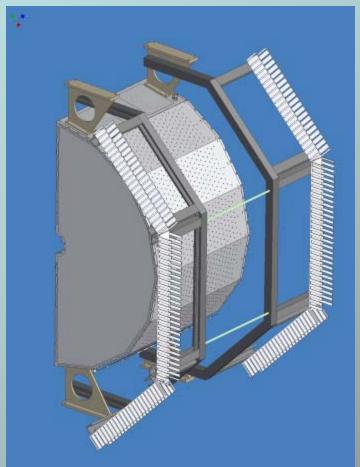












HBD Cable Management Scheme (Take 3)

Moved some support out of acceptance.

Work-in-progress



HBD & RXNP

Moved PMT's to 1300 mm max to avoid I-beams

3" PMT's

Attach arms to pole face for extra support

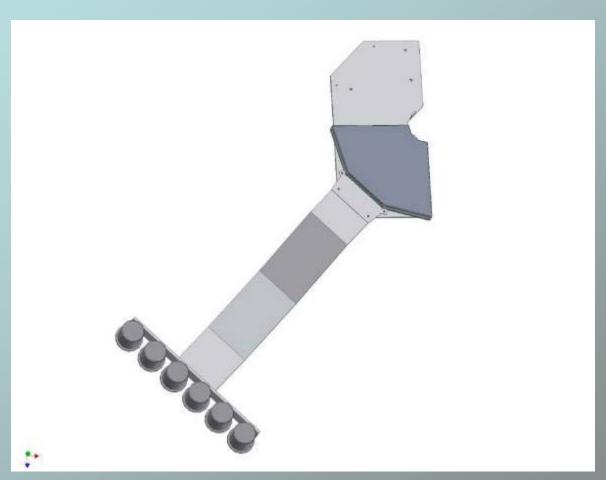
Still working on fiber routing/mounting/ protection







RXNP Quadrant

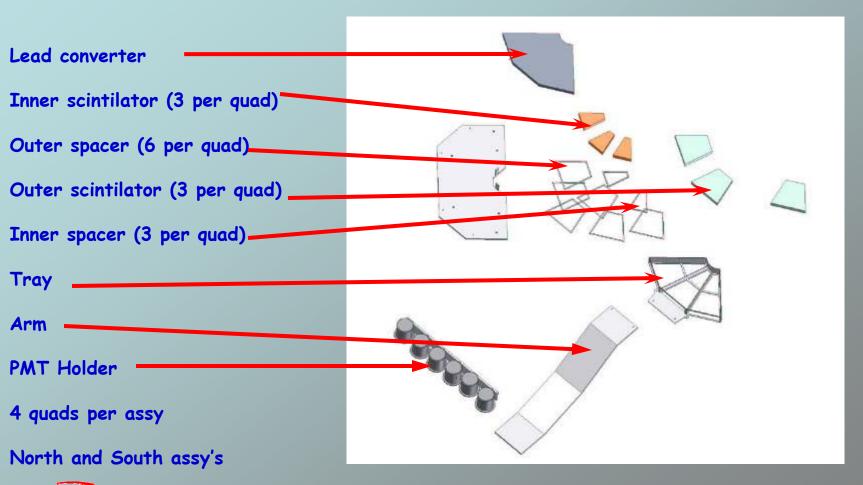


Design is progressing in coordination with HBD mounting and cable management



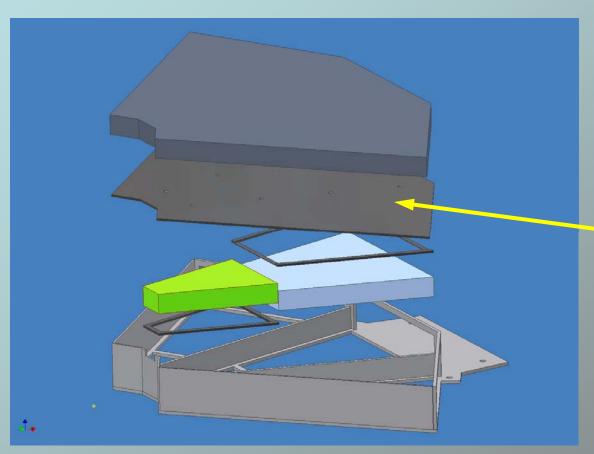


Reaction Plane Detector (RXNP)





RXNP



Revised design for RXNP

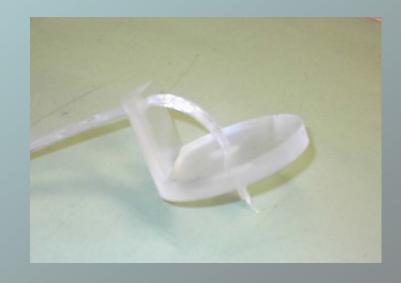
Spacer holds detector together without lead



Hellice Support 2005

RXNP Scintillator & Fiber Prototypes











Next Access Day

- Expect next access day (8 hrs) to be May 10
- · May be shorter controlled accesses before then
- · Subsystems must arrange for tech assistance prior to access day or don't expect assistance. (see Don Lynch or John Haggerty)
- · PHENIX Techs only on CM lift platform unless accompanied by PHENIX Tech (Lift platform is locked and requires removal of C. Pearson tag out)
- · Planned:
 - subsystem trouble shooting
 - HBD system tests
 - · Misc. trouble shooting



THE CONTRACTOR SUPPORT SUPPORT

Other Projects

TOF West

· Expect detectors to be at BNL by June 1.

MPC North

• Design efforts ongoing at UI.

Muon RPC

· Nothing New

Beampipe design

· New spec control drawing needed.

New CM Crane

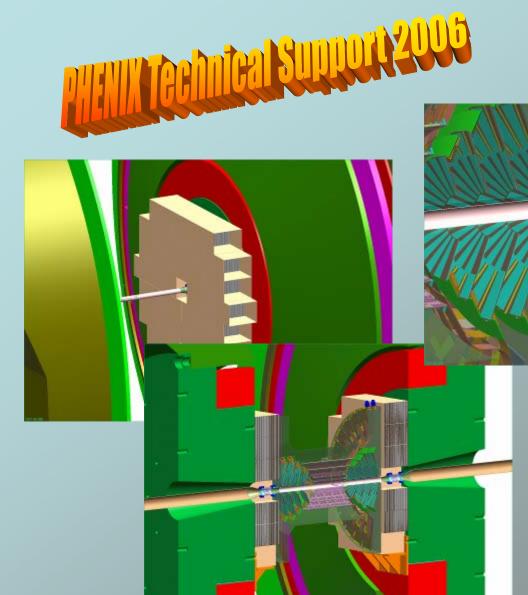
· Talked to Charlie. PHENIX will coordinate spec. requirements

Engineering Documentation

· Nothing new



New Beampipe for Upgrades



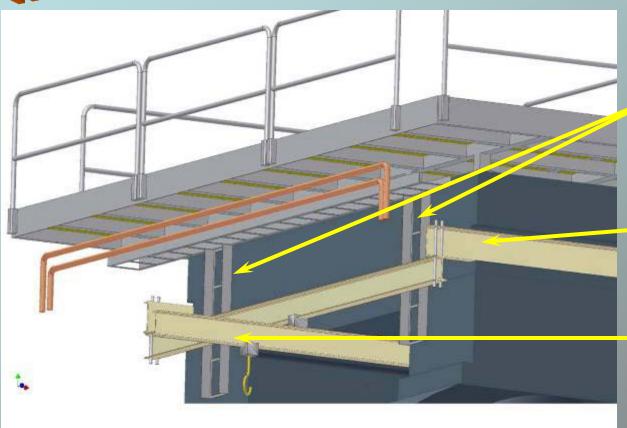
CA Coordination meeting findings:

- 1. Min radial clearance for VTX = 25 mm
- 2. Min Be ID = 40 mm
- 3. Be wall = 0.5 mm (4.4 mm min clearance)
- 4. Be ID to be neg coated at BNL
- 5. Be OD to be epoxy coated by Vendor
- 6. Requires supports at both bellows
- 7. Stress analyses needed (axial stress, vacuum breach shock stress and thermomechanical stresses during bakeout
- 8. RF analysis of bellows needed (shields?)





CM Region Crane & Cable Routing Concept



Cable Trays to route cables NCC Detector from Bridge

Crane Supports use existing flux return notches

CM Crane north-south & east-west motions; extended travel east to existing crane coverage





C-A Tasks

Current Tasks

- · General run support
- ·New storage trailer (as promised)
- ·Fix roof leaks

Tasks for Shutdown 2006

· See Shutdown schedule





THE CONTRACTOR SURPLY SUPPLY S

MOLD Problems















Shutdown 2006 key dates

- Run ends June 27
- End of Run Party June 29?
- Open Shield wall June 30
- Prep and move EC July 10
- Install TOF W (start) July 19
- Install RXNP (start) July 31
- Install HBD (start no later than) Aug 14 (possibly as early as Aug 1)
- Install MPC North (start no later than) Aug 28
- Start EC roll in Sep. 22
- Start RHIC Cooldown Oct. 15
- Start Physics data taking Nov. 17

Subsystems: Get requests for maintenance in early to get on theschedule





Where To Find PHENIX Technical Info

Links for the shutdown schedule as well as weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

